



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/900,001	07/05/2001	Mark J. McArdle	002114.P021	5140
28875	7590	06/16/2006	EXAMINER	
Zilka-Kotab, PC P.O. BOX 721120 SAN JOSE, CA 95172-1120			MOORTHY, ARAVIND K	
			ART UNIT	PAPER NUMBER
			2131	

DATE MAILED: 06/16/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

1. This is in response to the amendment filed on 17 May 2006.
2. Claims 1, 2, 4-14, 16-26 and 28-43 are pending in the application.
3. Claims 1, 2, 4-14, 16-26 and 28-43 have been rejected.
4. Claims 3, 15 and 27 have been cancelled.

Response to Amendment

5. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Response to Arguments

6. Applicant's arguments with respect to claims 1, 2, 4-14, 16-26 and 28-39 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

7. **Claims 1, 2, 4-14, 16-26 and 28-43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Vairavan US 2002/0083344 A1 in view of Drake U.S. Patent No. 6,006,328.**

As to claims 1, 5, 40 and 41, Vairavan discloses intercepting a portion of outgoing network data [0131].

Vairavan does not teach conditionally masking the portion of outgoing network data to impersonate a different operating system in accordance with a security policy if the network is an untrusted network. Vairavan does not teach replacing the portion of outgoing network data with data characteristic of the different operating system.

Drake teaches impersonating a different operating system [column 4 line 47 to column 5 line 34]. Drake teaches replacing data with data characteristic of the different operating system [column 4 line 47 to column 5 line 34]. Drake teaches impersonating any one of the plurality of different operating systems [column 14, lines 33-39].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Vairavan so that the firewall would have intercepted a portion of outgoing network data that had characteristics of a particular operating system. The firewall would have conditionally masked the portion of outgoing network data to impersonate a different operating system in accordance with a security policy if the network is an untrusted network. The replacement of the outgoing network data would have been used to prevent identification of the operating system for misleading attackers into attempting attacks that are unworkable on the operating system. The system would have been able to impersonate any one of a plurality of different operating systems.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Vairavan by the teaching of Drake because certain operating system more vulnerable to attacks. Therefore, if it were an untrusted network, you would not want an outsider to penetrate your operating system.

As to claims 2, 14, 26 and 43, Vairavan teaches discarding the portion of outgoing network data [0132].

As to claims 4 and 16, Vairavan teaches that the security policy identifies the portion of outgoing network data and specifies an action to take to mask the portion of outgoing network data [0085].

As to claims 6, 18 and 39, Vairavan teaches that the security policy further defines the network as untrusted [0134-0135].

As to claims 7, 19 and 29, Vairavan teaches receiving the security policy through the network [0134-0135].

As to claims 8, 20 and 30, Vairavan teaches modifying the security policy based on user input [0066-0067].

As to claims 9, 21 and 28, Vairavan teaches transmitting the portion of outgoing network data unchanged if the network is a trusted network [0074].

As to claims 12, 24 and 32, Vairavan teaches that the method is integrated into a firewall that protects the computer [0085].

As to claims 13 and 17, Vairavan discloses intercepting a portion of outgoing network data [0131].

Vairavan does not teach conditionally masking the portion of outgoing network data to impersonate a different operating system in accordance with a security policy if the network is an untrusted network. Vairavan does not teach replacing the portion of outgoing network data with data characteristic of the different operating system.

Drake teaches impersonating a different operating system [column 4 line 47 to column 5 line 34]. Drake teaches replacing data with data characteristic of the different operating system [column 4 line 47 to column 5 line 34]. Drake teaches impersonating any one of the plurality of different operating systems [column 14, lines 33-39].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Vairavan so that the firewall would have intercepted a portion of outgoing network data that had characteristics of a particular operating system. The firewall would have conditionally masked the portion of outgoing network data to impersonate a different operating system in accordance with a security policy if the network is an untrusted network. The replacement of the outgoing network data would have been used to prevent identification of the operating system for misleading attackers into attempting attacks that are unworkable on the operating system. The system would have been able to impersonate any one of a plurality of different operating systems.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Vairavan by the teaching of Drake because certain operating system more vulnerable to attacks. Therefore, if it were an untrusted network, you would not want an outsider to penetrate your operating system.

As to claims 10, 22, 31, 37 and 38, the Vairavan-Drake combination teaches the method further comprising:

intercepting a portion of incoming network data, as discussed above; and
sending a false response to the portion of incoming network data to impersonate the different operating system in accordance with the security policy if the network is an untrusted network [Drake column 8, lines 24-63].

As to claims 11 and 23, the Vairavan teaches that the security policy identifies the portion of incoming network data and the false response [column 0074-0080].

As to claims 25 and 33, Vairavan discloses intercepting a portion of outgoing network data [0131].

Vairavan does not teach conditionally masking the portion of outgoing network data to impersonate a different operating system in accordance with a security policy if the network is an untrusted network. Vairavan does not teach replacing the portion of outgoing network data with data characteristic of the different operating system.

Drake teaches impersonating a different operating system [column 4 line 47 to column 5 line 34]. Drake teaches replacing data with data characteristic of the different operating system [column 4 line 47 to column 5 line 34]. Drake teaches impersonating any one of the plurality of different operating systems [column 14, lines 33-39].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Vairavan so that the firewall would have intercepted a portion of outgoing network data that had characteristics of a particular operating system. The firewall would have conditionally masked the portion of outgoing network data to

impersonate a different operating system in accordance with a security policy if the network is an untrusted network. The replacement of the outgoing network data would have been used to prevent identification of the operating system for misleading attackers into attempting attacks that are unworkable on the operating system. The system would have been able to impersonate any one of a plurality of different operating systems.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Vairavan by the teaching of Drake because certain operating system more vulnerable to attacks. Therefore, if it were an untrusted network, you would not want an outsider to penetrate your operating system.

As to claims 34-36, Vairavan discloses intercepting a portion of outgoing network data [0131].

Vairavan does not teach conditionally masking the portion of outgoing network data to impersonate a different operating system in accordance with a security policy if the network is an untrusted network. Vairavan does not teach replacing the portion of outgoing network data with data characteristic of the different operating system.

Drake teaches impersonating a different operating system [column 4 line 47 to column 5 line 34]. Drake teaches replacing data with data characteristic of the different operating system [column 4 line 47 to column 5 line 34]. Drake teaches impersonating any one of the plurality of different operating systems [column 14, lines 33-39].

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Vairavan so that the firewall would have intercepted a portion of outgoing network data that had characteristics of a particular operating

Art Unit: 2131

system. The firewall would have conditionally masked the portion of outgoing network data to impersonate a different operating system in accordance with a security policy if the network is an untrusted network. The replacement of the outgoing network data would have been used to prevent identification of the operating system for misleading attackers into attempting attacks that are unworkable on the operating system. The system would have been able to impersonate any one of a plurality of different operating systems.

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have modified Vairavan by the teaching of Drake because certain operating system more vulnerable to attacks. Therefore, if it were an untrusted network, you would not want an outsider to penetrate your operating system.

As to claim 42, Vairavan teaches that the false response is sent if the operating system would normally not respond to the incoming network data [0131].

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aravind K. Moorthy whose telephone number is 571-272-3793. The examiner can normally be reached on Monday-Friday, 8:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz R. Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Aravind K Moorthy
June 8, 2006

A handwritten signature in black ink, appearing to read 'Aravind K. Moorthy', is written over the typed name and date.